634

ARKIV FÖR FYSIK

UTGIVET AV

KUNGL. SVENSKA VETENSKAPS-

AKADEMIEN

Band 14

Med 36 avhandlingar

ALMQVIST & WIKSELL / STOCKHOLM

1959

Häfte	1	innehållande	Nr	1—	7	utkom	den	23 sept. 1958
»	2	»	Nr	8—15		»	»	14 okt. 1958
»	3	»	Nr	16—18		»	»	15 » 1958
»	4	»	Nr	19—23		»	»	31 » 1958
»	5	»	Nr	24—30		»	»	3 febr. 1959
»	6	»	Nr	31—36		»	»	10 mars 1959

FJORTONDE BANDETS INNEHÅLL

		Sid.
1.	Wassberg, G. and Siegbahn, K., Small-angle scattering of X-rays	1– 15
2.	Kjellman, J. and Johansson, B., On the adaptation of an intermediate-image β-spectrometer to pair spectroscopy	17– 29
3.	Hulthén, E., Johansson, N. and Pilsäter, U., On the absorption spectrum of ICl. Part I	31– 48
4.	Brulin, O. and Hjalmars, S., Relativistic wave equations for spin-2 particles with unique mass	49– 60
5.	Erlandsson, G. and Selén, H., The dipole moment of formic acid	61– 64
6.	Stockendal, R., Novakov, T., Johansson, B. and Schmorak, M., On the decay of Bi^{204}	65– 84
7.	Novakov, T., Stockendal, R., Schmorak, M. and Johansson, B., On the decay of Bi^{203}	85– 99
8.	Sujkowski, Z. and Slätis, H., On the *L*-Auger lines in the beta-ray spectrum of the active deposit of thoron	101–121
9.	Minnhagen, L., On the $3d(^1D)$ and $3d(^1S)$ levels of singly ionized argon	123–125
10.	Borelius, G., On the phase transition and excitations in liquid helium	127–132
11.	Ehrenberg, A. and Ehrenberg, L., The decay of X-ray induced free radicals in plant seeds and starch	133–141
12.	Frössling, N., Calculation by series expansion of the heat transfer in laminar, constant-property boundary layers at nonisothermal surfaces	143–151
13.	Block, L., On the shape of the auroral zones	153–160
14.	Block, L., Cosmic ray orbits in interplanetary magnetic fields	161–178
15.	Block, L., On the interplanetary gas and its magnetic field	179–193
16.	Brunberg, E.-Å., The optics of cosmic ray telescopes	195–262
17.	Åström, H. U., Calorimetric measurements on the structural energy of an annealed metal of high purity	263–275
18.	Nilsson, S. and Frisk, Å., Interactions in flight of negative heavy mesons	277–292
19.	Nilsson, S. and Frisk, Å., Decay modes and lifetime of negative heavy mesons	293–302
20.	Nilsson, S. and Frisk, Å., Emission of charged $\Sigma + \pi$ from K^--proton capture in nuclear emulsions	303–314
21.	Sjölander, A., Multi-phonon processes in slow neutron scattering by crystals	315–371
22.	Alväger, T., Johansson, B. and Zuk, W., The magnetic dipole transitions in Xe^{129m} and Cs^{133}	373–382
23.	Åström, H. U., Anelasticity of nitrogen in α-iron	383–386
24.	Lagerqvist, A., Westerlund, H., Wright, C. V. and Barrow, R. F., Rotational analysis of the ultraviolet band system of CS	387–408
25.	Sandström, A. E., The latitude effect of the cosmic ray nucleonic component in relation to the magnetic dip	409–418

26. Beckman, O., Bergvall, P. and Axelsson, B., A precision curved crystal X-ray and gamma-ray spectrometer 419–437
27. Johansson, B., Alväger, T. and Zuk, W., The half-lives of some electric quadrupole transitions in the lead region 439–449
28. Prior, O., On moments of inertia of strongly deformed odd-A nuclei . . 451–472
29. Uhler, J. and Alväger, T., A method of rapid electromagnetic separation of radioactive isotopes 473–480
30. Minnhagen, L., Remeasured carbon I wavelengths in the photographic infrared 481–482
31. Minnhagen, L., The spectrum of singly ionized argon in the vacuum ultraviolet 483–496
32. Hettinger, G. and Starfelt, N., Energy and angular distribution of scattered radiation in a water tank irradiated by X-rays 497–512
33. Flodmark, S., Electron distribution and energy bands in crystals of metal borides of the type MB_6 513–550
34. Neuhaus, H., Über die bandenspektren des Galliumhydrids und -deutrids 551–556
35. Sokolowsky, E. and Nordling, C., Experimental studies of the *KLL* Auger spectra of Cu and Ge 557–564
36. Hultberg, S. and Stockendal, R., On the determination of absolute internal conversion coefficients by the comparison of conversion lines and photolines. An application to the 662 keV transition in the decay of Cs^{137} 565–577